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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Alexander Lifson 60,246-251/10751 1850 10/784,409 02/23/2004 EXAMINER 26096 12/23/2004 CARLSON, GASKEY & OLDS, P.C. ALI, MOHAMMAD M 400 WEST MAPLE ROAD PAPER NUMBER ART UNIT **SUITE 350** BIRMINGHAM, MI 48009 3744

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)	
		10/784,409	LIFSON ET AL.	
		Examiner	Art Unit	
		Mohammad Ali	3744	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1)⊠	Responsive to communication(s) filed on 23 Fe	ebruary 2004.		
2a)□	·	action is non-final.		
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims				
5)□ 6)⊠ 7)⊠	· <u> </u>			
Application Papers				
 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 23 February 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 02/23/04. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:				

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Election/Restrictions

Applicant's election without traverse of 11/15/04 in the reply filed on 12/08/04 is acknowledged.

Specification

The abstract of the disclosure is objected to because the abstract contains undesirable printed E-mail address, "N:\Clients\CARRIER\P00251\PATENT\utility application.doc". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

Claims 3 and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The indefinite phrase, "different geometry" for claim 3 renders the claim indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Voorhis (6,199,399). Voorhis discloses a bi-directional refrigerant expansion and metering valve comprising a compressor 16 to first 14 and second 18 heat exchangers; and expansion

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device /bi-directional valve 40 connected between the first 14 and second 18 heat exchangers the expansion device 40 including a flow resistance device arranged between first and second fluid passages and in fixed relation thereto, the flow resistance device providing a first fluid resistance with the fluid flowing in a first direction and a second fluid resistance greater than the first resistance with the fluid flowing in a second direction. See Fig. 2A, 2B, 3, 4 and column 3, lines 33-48.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is 703-308-5032. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Esquivel Denise can be reached on 703-308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Md. Mhin Ali Mohammad M. Ali December 16, 2004